SAJAL REGMI

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EDUCATION

Arizona State University   **August 2021 - May 2025**
Bachelors of Science in Engineering (Biomedical Devices)   *Tempe, Arizona*

SKILLS

Languages & Databases	Java, Python, JavaScript, TypeScript, MySQL, Redis, MongoDB, Neo4j
Software Architecture	Microservices, Message Brokerage, Caching, RESTful APIs, API Security, RAGs, GraphRAGs.
Cloud	AWS , Docker, Kubernetes

PROJECTS

GPT Semantic Cache An NPM package for semantic caching of GPT responses.

React Native Markdown Editor An NPM Package that enables editing Markdown Content in React Native.

Tikz-Latex Modified node-tikzjax to return detailed error message in case of conversion failure.

PREPRINT

GPT Semantic Cache: Reducing LLM Costs and Latency via Semantic Embedding Caching. https://arxiv.org/pdf/2411.05276

EXPERIENCE

Co-Founder & Engineer   **September 2024 - Present**
Lecturely AI   *Remote*

- Designed and Implemented a multi-agent LLM workflow to create an AI-driven note-taking application. Lecturely.ai

Entrepreneur In Residence   **April 2024 - June 2024**
Creatiphe LLC   *Remote*

- Presented startup ideas weekly, developed MVPs, implemented testing strategies including running targeted ad campaigns enhancing engagement and conversions by 30%.
- Reduced Happy O'Clock's Churn by 10% by integrating automation tools and applying retention strategies via Make.com.
- Incubated a talent agency to bridge the gap between Nepalese tech talent and global opportunities and managed hiring process for about 500 applications.

Co-Founder and Engineer   **May 2023 – May 2024**
Ticket Sewa Pvt Ltd   *Remote, Nepal*

- Architected and led the full-stack development for the Ticket Sewa Mobile App and Organizer Dashboard, focusing on strategic planning, product roadmapping, and UI/UX design. TicketSewa App (Testing).
- Developed RESTful APIs using `Node.js` and `Express.js` within a microservices architecture; optimized `Database` schemas, increasing query performance by 40%.
- Implemented secure and fault-tolerant inter-service communication using `RabbitMQ` with advanced routing, dead-lettering for message failures, and integrated `Redis` caching with LRU eviction policies, reducing API response times by 30% and ensuring system resilience.
- Deployed containerized applications on `Amazon ECS`, Leveraged `Amazon RDS` and `ElastiCache` to ensure 99.99% availability and high performance in a chaos-tolerant environment.

Product Development Intern   **August 2020 - July 2021**
Karyathalo IT and Web Solutions Pvt Ltd   *Kathmandu, Nepal*

- Developed and maintained backend services for the E-Government system using `PHP` and MySQL, currently serving **4.2 million inhabitants**. kathmandu.gov.np.
- Designed and implemented backend architecture using `Java Spring Boot` for a last-mile delivery system, optimizing geolocation and population-based data to support over 6 million people and 200 online vendors across 4 cities. Pudo Nepal.

Prototype Developer (Game)   **August 2020 - July 2021**
Karela Games   Remote

- Designed and implemented gameplay mechanics and core systems for 3 HyperCasual game prototypes using Unity Engine and C#. Collaborated with SuperDevelopers to deliver production-ready code optimized for performance and scalability.